Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: Minuteman Exploration LLC Well Name/Number: Ouebec 13-15-5-1 **Location:** NW SE Section 5 T13N R15E County: Judith Basin , MT; Field (or Wildcat) Wildcat **Air Quality** (possible concerns) Long drilling time: No short, 5 to 10 days drilling time. Unusually deep drilling (high horsepower rig): No, small single drilling rig to drill to a 3837' TD, Otter Formation test. Possible H2S gas production: None anticipated. In/near Class I air quality area: Not in a Class I air quality area. Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211. Mitigation: X Air quality permit (AOB review) ___ Gas plants/pipelines available for sour gas __ Special equipment/procedures requirements __ Other: Comments: Small single derrick drilling rig. **Water Quality** (possible concerns) Salt/oil based mud: No, freshwater and freshwater mud system to be used. High water table: No, high water table expected. Surface drainage leads to live water: drainage is generally north toward unnamed ephemeral drainages eventually leading to Ross Fork Creek. Water well contamination: None, no water wells in the area. Steel surface casing will be run and cemented from 1772' to surface to protect ground waters. Porous/permeable soils: No, sandy clay soils. Class I stream drainage: No, Class I stream drainages would not be affected. Mitigation: Lined reserve pit X Adequate surface casing __ Berms/dykes, re-routed drainage __ Closed mud system __ Off-site disposal of solids/liquids (in approved facility) Comments: Adequate surface casing to be set to 1772' to protect surface water

and any ground water.

Soils/Vegetation/Land Use

(possible concerns)
Steam crossings: No, streams to be crossed.
High erosion potential: No, on large flatabout 8-9' fill on low corner.
Loss of soil productivity: No, location will be restored after drilling, if nonproductive.
If productive unused portion of drillsite will be reclaimed.
Unusually large wellsite: No, drillsite is 300'X300'.
Damage to improvements: Slight, surface use is cultivated land.
Conflict with existing land use/values: <u>Slight</u>
Mitigation
Avoid improvements (topographic tolerance)
Exception location requested
X Stockpile topsoil
Stream Crossing Permit (other agency review)
X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation
Other
Comments: Will utilize existing trail. About 0.2 mile of new road will be build into
this location. Closed loop -no earthen pits will be utilized for drilling. Drilling fluids,
mud solids and cuttings will be removed from site.
Health Hazards/Noise
(possible concerns)
Proximity to public facilities/residences: <u>Closest residence is over a mile away.</u>
Possibility of H2S: None anticipated.
Size of rig/length of drilling time: Small single derrick drilling rig/Short drilling time 5
to 10 days.
Mitigation:
_X Proper BOP equipment
Topographic sound barriers
H2S contingency and/or evacuation plan
Special equipment/procedures requirements
Other:
Comments: Adequate amount of surface casing and operational BOP equipment
should mitigate any problems.
Wildlife/recreation
(possible concerns)
Proximity to sensitive wildlife areas (DFWP identified): None identified.
Proximity to recreation sites: None identified.
Creation of new access to wildlife habitat: None

Conflict with game range/refuge management: None
Threatened or endangered Species: Threatened or endangered species identified are the
Pallid Sturgeon and Black-Footed Ferret. Species of concern is the Greater Sage Grouse
and Sprague's Pipit. NH tracker website lists two species of concern both are minnows.
and sprague s ripid rate detect weedste note two openies of concern countain minimums.
Mitigation:
Avoidance (topographic tolerance/exception)
Avoidance (topographic tolerance/exception) _X Other agency review (DFWP, federal agencies, DSL)
Screening/fencing of pits, drillsite
Other:
Comments: Surface use is a private cultivated land and State owned minerals.
There may be species of concern that could be impacted by this wellsite. We ask the
operator to consult with the surface owner if a species of concern is discovered at this
location. The Board of Oil & Gas has no jurisdiction to manage private lands.
Historical/Cultural/Paleontological
(possible concerns)
Proximity to known sites None identified
Mitigation
avoidance (topographic tolerance, location exception)
<u>X</u> other agency review (SHPO, DSL, federal agencies)
Other:
Comments: Surface use is a private cultivated land. There may be
historical/cultural/paleontological sites that maybe impacted by this wellsite. The surface
owner may chose to preserve these sites or not, if they are found during construction of
the wellsite. The Board of Oil & Gas has no cultural resource jurisdiction on private
lands.
<u>iunus.</u>
Social/Economic
(possible concerns) Substantial offect on toy become
Substantial effect on tax base
Create demand for new governmental services
Population increase or relocation
Comments: No, impact expected from the drilling of this well.
Remarks or Special Concerns for this site
No special concerns about this wellsite. This is a Heath Formation test to be drilled to
3837' TD, Otter Formation at TD.

Summary: Evaluation of Impacts and Cumulative effects

No significant or long term impacts expected from the drilling of this well. Some short term impacts will occur.

I conclude that the approval of the subject Notice of Intent to Drill (does/does not)
constitute a major action of state government significantly affecting the quality of the
human environment, and (does/does not) require the preparation of an environmental
impact statement.
•
Prepared by (BOGC): /s/Thomas Richmond
(title:) Administrator
Date: February 7, 2014
Other Persons Contacted:
Montana Bureau of Mines and Geology, GWIC
website
(Name and Agency)
Fergus County water wells
(subject discussed)
<u>February 7, 2014</u>
(date)
US Fish and Wildlife, Region 6 website
(Name and Agency)
ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES
MONTANA COUNTIES, Fergus County
(subject discussed)
February 7, 2014
(date)
Montana Natural Heritage Program Website (FWP)
(Name and Agency)
Heritage State Rank= S1, S2, S3, T15N R16E
(subject discussed)
Fahmam 7, 2014
_ <u>February 7, 2014</u>
(date)
If location was inspected before permit approval:
Inspection date:
Inspector:
Others present during inspection: